Polovko, N.A.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 18910.

Author : N. Polovko.
Inst : Academy of Sciences of Ukrainian SSR.
Title : Fayalite Quartzites of the Right-Hand Bank Group of Magnetic Anomalies.

Orig Pub : Dopovidi AN URSR, 1956, No 4, 391-393.

Abstract : A fayalite phase of cummingtonite - ferrohypersthene quartzites in the Petrovskiy region of the Kirovograd district is described in accordance with the core material. Besides the fundamental minerals - quartz and fayalite - the rock contains: ferrohypersthene, garnet, hedenbergite and accessory minerals magnetite, apatite and pyrite. Chemical analyses of fayalite and fayalite quartzite are quoted. The chemical composition of faylaite (%): SiO_2 29.98, TiO_2 traces, Al_2O_3 0.98, Fe_2O_3 0.16, FeO 66.63, MnO 0.04, MgO 2.17, CaO

POLOVKO, N I.

3(5) PHASE I BOOK EXPLOITATION SOV/2248

Semenenko, Nikolay Panteleymonovich, Nataliya Ivanovna Polovko, Yakov Mikhaylovich Gritskov, Mikhail Nikolayevich Dobrokhotov, Anna Aleksandrovna Makukhina, Viktoriya Danilovna Ladiyeva, Georgiy Viktorovich Zhukov, and Andrey Andreyevich Nastenko.

Geologiya zhelezisto kremnistykh formatsiy Ukrainy (Geology of Ferruginous-Silicified Formations of the Ukraine) Kiyev, Izd-vo AN USSR, 1959. 687 p. Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut geologicheskikh nauk.

Eds: S.P. Rodionov, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: V.N. Zaviryukhina; Tech. Ed.: Ye. N. Rozentsveyg.

PURPOSE: This book is intended for industrial and research geologists, teachers and advanced students of geology.

Card 1/29

POLOVKO, N.I.

Pyroxenes from ferrosiliceous rocks in the right bank of the Dnieper.
Zap. Vses. min. ob-va 89 no.3:300-306 '60. (MIRA 13:8)

1. Institut geologicheskikh nauk AN USSR.
(Dnieper Valley--Rocks, Siliceous) (Pyroxenes)

Polovko, N.I.

PHASE I BOOK EXPLOITATION SOV/5325

International Geological Congress. 21st, Copenhagen, 1960.

Granito-gneysy (Gneissose Granites) Kiyev, Izd-vo AN UkrSSR, 1960. 174 p. 1,000 copies printed. (Series: Doklady sovetskikh geologov, problema 14) Added t. p. in English.

Sponsoring Agency: Akademiya nauk Soyuza SSR. Akademiya nauk Ukrainskoy SSR. Ministerstvo geologii i okhrany nedr SSSR. Natsional'nyy komitet geologov Sovetskogo Soyuza.

Editorial Board: Resp. Eds.: N.P. Semenenko, D.S. Korzhinskiy, and G.D. Afanas'yev; Ed. of Publishing House: V.N. Zaviryukhina; Tech. Ed.: A.A. Matveychuk.

PURPOSE: This book is intended for geologists and petrographers, as well as students of geology at schools of higher education.

COVERAGE: The book contains 13 articles representing the reports given by Soviet scientists at the 21st Session of the International Geological Congress. The individual reports deal with theoretical problems of metamorphism and interaction of magmatic masses, formation of granites, magmatic replacement in subeffusive facies, formation of scarns, and paragenetic analysis. Representatives of the following scientific institutions participated in the work: D.S. Korzhinskiy and V.A. Zharikov, of IGEM (Institute of Geology of Mineral Deposits, Petrography, and Geochemistry AS USSR); V.V. Tikhomirov, of the Institut geologii AN SSSR (Institute of Geology AS USSR); N.G. Sudovikov, Laboratoriya problem dokembriya (Laboratory of Precambrium Problems); N.P. Semenenko, R.I. Siroshtan, N.I. Polovko, Ya. N. Belevtsev, and A.I. Strygin of the Institut geologicheskikh nauk AN UkrSSR (Institute of Geological Sciences AS UkrSSR); V.S. Sobolev of the Institut geologii poleznykh iskopayemykh AN UkrSSR (Institute of Geology of Minerals AS UkrSSR) and L'vovskiy gosudarstvennyy universitet (L'vov State University); G.M. Zaridze, and N.F. Tatrishvili of the Geologicheskiy institut AN Gruzinskoy SSR (Geological Institute AS GruzSSR); G.L. Pospelov, Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR (Institute of Geology and Geophysics of the Siberian Department of the AS USSR); N.A. Govorov of the Dal'nevostochnyy filial AN SSSR (Far Eastern Branch of the AS USSR); and I.F. Trusova, of the Moskovskiy geologorazvedochnyy institut (Moscow Institute for Geological Exploration). An English resumé accompanies each article. References follow individual articles.

Zharikov, V.A. Magmatic Replacement of Carbonate Formations 54

Polovko, N.I. Principles of the Classification and Grade of Ferrosiliceous Rock Metamorphism in the Ukraine 65

Govorov, I.N. The Greizening of Carbonate Rocks 80

Sudovikov, N.G. Granites and Ore Formation 97

Tikhomirov, V.V. The Development of the Earth's Crust and the Significance of Metasomatosis in This Process 107

Zaridze, G.M., and N.F. Tatrishvili. The Stages of Metasomatosis 127

Pospelov, G.L. The Phenomena of Magmatic Replacement in the Subeffusive Facies and the Subeffusive Stages of Development of Magmatic Complexes in Western Siberia 140

Trusova, I.F. Granitization and Metamorphism of Precambrian Formations in Central Kazakhstan 154

Belevtsev, Ya.N., and A.I. Strygin. Granitization of the Rocks of an Iron-Ore Formation and the Genesis of Ores (as Illustrated by the Iron-Ore Deposits of the Ukraine) 168

Card 4/5

GRITS'KOV, Ya.M. [Hryts'kov, IA.M.]; POLOVKO, N.I.

Ores in the Popel'nastoye iron ore deposit. Geol.zhur. 22 no.1: 66-75 '62. (MIRA 15:2)

1. Institut geologicheskikh nauk AN USSR i Trest "Kiyevgeologiya" Glavnogo reologo-razvedochnogo upravleniya USSR.
(Popel'nastoye region—Ore deposits)

BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO, G.I.; MEL'NIK, Yu.P.; SIROSHTAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY, M.I.; SHCHERBAKOVA, K.F.; ZAGORUYKO, L.G.; GOROSHNIKOV, B.I.; AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, G.V.; KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.; STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.; CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA, P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; POLOVKO, N.I., red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M., red.; SLENZAK, O.I., red. izd-va; KULICHENKO, V.G., red.; RAKHLINA, N.P., tekhn. red.; MATVEYCHUK, A.A., tekhn. red.

[Geology of the Krivoy Rog iron ore deposits] Geologiia Krivorozhskikh zhelezorudnykh mestorozhdenii. Kiev, Izd-vo Akad. nauk USSR. Vol.1.[General problems of the geology of the Krivoy Rog Basin. Geology and iron ores of the "Ingulets," Rakhmanovskiy, and Il'ich ore deposits] Obshchie voprosy geologii Krivbassa. Geologicheskoe stroenie i zheleznye rudy mestorozhdenii rudnikov "Ingulets," Rakhmanovskogo i im. Il'icha. 1962. 479 p. Vol.2.[Geology and iron ores of the Dzerzhinskiy, Kirov, Liebknecht, October Revolution, "Bol'shevik," Frunze, 22d Parts'ezd, Red Guard, and Lenin deposits]Geologicheskoe stroenie i zheleznye rudy mestorozhdenii im. Derzhinskogo, im.Kirova, im.K.Linkenkhta, im.XX parts"ezda, im. Krasnoi Gvardii i im.Lenina. 1962. 564 p. (MIRA 16:5)

(Krivoy Rog Basin--Iron ores)

POLOVKO, N.I.; SIROSHTAN, R.I.; RYABOKON', S.M.

Characteristics of certain metaultrabasite minerals in ferrosiliceous formations of the Ukraine. Geol. zhur. 20 no. 3:13-26 '60. (MIRA 14:4)

(Ukraine—Minerals)

[illegible]

ZHUKOV, G.V.; POLOVKO, N.I.

Stratigraphic nomenclature and divisions of the metamorphic complex in the Krivoy Rog iron ore basin. Biul.MOIP.Otd.geol. 32 no.1:93-97 Ja-F '57. (MLRA 10:5)

(Krivoy Rog--Geology, Stratigraphic)

POLOVKO, NATALIYA IVANOVNA

SEMENENKO, Nikolay Panteleymonovich; POLOVKO, Nataliya Ivanovna; ZHUKOV, Georgiy Viktorovich; LADIYEVA, Viktoriya Danilovna; MAKUKHINA, Anna Aleksandrovna; ZAVIRYUKHINA, V.N., redaktor izdatel'stva; RODIONOV, S.P., otvetstvennyy redaktor; ROZENTSVEYG, Ye.N., tekhredaktor

[Petrography of ferrosilicate formations of the Ukraine] Petrografiia zhelezistokremnistykh formatsii Ukrainskoi SSR. Kiev, Izd-vo Akad. nauk USSR, 1956. 535 p. (MLRA 10:4)

1. Chlen-korrespondent AN USSR. (for Rodionov)
(Ukraine--Petrology)

SIROSHTAN, R.I.; POLOVKO, N.I.

Hornblendes in metabasites in ferruginous-siliceous formations of the Ukrainian crystalline shield. Geol. zhur. 19 no.4:47-57 '59.
(MIRA 13:1)

(Ukraine—Hornblende)

BONDARENKO, V.O.; POLOVKO, V.M.

Pneumatic conveying of defecation and saturation residues. Khar.-prom. no.4:92 O-D '62. (MIRA 16:1)

(Pneumatic conveying)
(Sugar industry--Equipment and supplies)

POLOVKO, V.N.

Control of the washing waters in the manufacture of discoloring activated carbons. Trudy KTIPP no.27:104-108 '63.

(MIRA 17:5)

POLOVKO, V. N., Cand Tech Sci -- "~~Obtainment~~ Production and ~~application~~ use of activated carbons for the decoloration of products of the sugar industry." Kiev, 1961.. (Min of Higher and Sec Spec Ed UkSSR. Kiev Technol [illegible] Inst of Food Industry) (KL, 8-61, 247)

BORODA, T.A., kand. khim. nauk; ROMAZANOVICH, N.P., kand. khim. nauk;
POLOVKO, ~~V.N.,~~ kand. tekhn. nauk; CHISTYAKOVA, Ye.A.;
LIKHITSKAYA, V.S., inzh.

Purification of commercial lactic acid. Pishch. prom. no.1:
96-102 '65. (MIRA 18:11)

POLOVKO, V.N.

Production of clarifying activated carbon from sawdust.
Trudy KTIPP no.17:161-169 '57. (MIRA 13:1)
(Carbon, Activated) (Wood, Waste)

RABINOVICH, B.D.; Prinimali uchastiye: VDZEN'KOVSKIY, V.I.; DERKACH, I.I.;
KOCHKINA, L.V.; POLOVKO, Ye.T.; SHILO, V.P.

Investigating the performance of a vibratory screening machine.
Trudy UkrNIISP no.5:21-33 '59. (MIRA 16:11)

IVANCHENKO, G., doktor tekhn.nauk; POLOVNEV, G.

The "Karagandinets" cutter loader. Sov.shakht. 11 no.11:21
N '62. (MIRA 15:11)

1. Direktor Karagandinskogo nauchno-issledovatel'skogo ugol'nogo instituta (for Ivanchenko). 2. Glavnyy konstruktor proyekta kombayna "Karagandinets" (for Polovnev).
(Coal mining machinery)

IVANCHENKO, G. Ye.; CHEFRANOV, V.V.; POLOVNEV, G.P.; SULIMOV, K.G.

Industrial and stand testing of an experimental model of a disk-type actuating mechanism. Nauch. trudy KNIUI no.13:4-9 '64
(MIRA 18:1)

KICHIGIN, A.F.; POLOVNEV, G.P.; SALTANOV, A.D.; YAREMA, V.D.

Fracture of rock by breaking away. Nauch. trudy KNIUI no.13:
243-247 '64 (MIRA 18:1)

KICHIGIN, A.F.; MASTER, A.A.; PESIN, N. Ya.; POLOVNEV, G.P.

Economic efficiency of introducing the "Karagandinets-P" rock cutter-loader. Nauch. trudy KNIUI no.13:369-374 '64 (MIRA 18:1)

KICHIGIN, A.F.; POLOVNEV, G.P.

Characteristics of the arrangement of actuating mechanisms of stone drifting machines. Nauch. trudy KNIUI no.13:235-241 '64 (MIRA 18:1)

POLOVNEV, G.P.; SULIMOV, G.K.; ANTONOV, P.Ye.

Plow with an active cutter for cutting tough coal. Nauch. trudy KNIUI no. 11:331-336 '62. (MIRA 17:7)

IVANCHENKO, G.Ye.; PESIN, N.Ya.; BEVZIK, Yu.Ya. [deceased]; SULIMOV, K.G.;
MASTER, A.A.; POLOVNEV, G.P.

Technology of wide benching and its economic efficiency. Nauch. trudy
KNIUI no.14:372-383 '64. (MIRA 18:4)

POLOVNEV, V.S.; SHUL'MAN, S.Ye.

Experience in using electric methods of working metals. Avt. i trakt.prom. no.11:30-34 N '56. (MLRA 10:1)

1. Khar'kovskiy traktornyy zavod.
(Electrometallurgy)

L 06332-67 EWP(c)/EWP(j)/EWP(k)/EWT(d)/EWT(m)/EWP(h)/EWP(l)/EWP(e)/EWP(v)/EWP(t)/
ACC NR: AR6013841 (A, N) SOURCE CODE: UR/0276/65/000/011/B098/B098
ETI IJP(c) RM/WH/WW/DJ/JD

AUTHOR: Polovnev, Ye. A. 18 2

TITLE: Work on four state bearing plants to improve the lapping of ball bearing races 44

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 11B680 42 B

REF SOURCE: Tr. Seminara po vopr. progressivn. metodov shlifov, i dovodki detaley, obespech. vysok. i stabil'n. tochnosti i dolgovechn. podshipnikov kacheniya. M., 1964, 72-84

TOPIC TAGS: ball bearing, abrasive, metal polishing, metal finishing

ABSTRACT: It was established experimentally that, using the present lapping method, the surface roughness of the races remains practically constant under any changes of the abrasive material and operating regimes. Lapping with a lapping belt on a rigid lapper with an oscillating motion produces good results. To change to this lapping method it is necessary to modernize existing lapping machines by equipping them with attachments for driving the lapping belt and for changing the operating regime (increasing the working speed and pressure). For

UDC: 621.924.01:621.822.6

Card 1/2

L 06332-67

ACC NR: AR6013841

2

lapping of bearing rings with a class 11-12 finish it is possible to use an elastic abrasive cloth on a thin chiffon backing. To obtain class 12 finishes as well as for lapping of heat-resistant steels it is possible to use special small grained (M^{10}, M^{14}), soft abrasive particles on 111 K or DS^{15} binders.^{15} Good results in removing excess material were obtained by using cast particles which are effective in the first operation of the high quality ball bearing lapping process. 17 illustrations, 2 tables. L. Romancheva /Translation of abstract/

SUB CODE: 13

Card 2/2 mRE

POLOVNIKOV, A.

Fruit culture

Orchards in the marshlands. Sov. zhen. No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED

POLOVNIKOV, A.; MALANDIN, I.

Reconstruction of motor vehicles for operation on liquified gas.
Avt.transp. 38 no.11:40-41 N '60. (MIRA 13:11)
(Motor vehicles—Fuel systems)

POLOVNIKOV, A.F.

DUBSKIKH, D.A., inzhener; POLOVNIKOV, A.F., inzhener.

Drawing desks with a stand. Mashinostroitel' no.2:27-30 F '57. (MLRA 10:5)

(Drawing instruments)

POLOVNIKOV, A.F.; DUBSKIKH, D.A.

Some problems of planning and building circulation water pipelines for electric power plants. Vod. i san.tekh. no.3:26 Mr '56. (MLRA 9:7)
(Water pipes)

POLOVNIKOV, A. P.

Optovye bazy potrebitel'skoi kooperatsii [The wholesale basis of consumers' cooperatives]. Moskva, Izd-vo TSentrosoiuza, 1953.

SO: Monthly List of Russian Accessions. Vol. 6 No. 7 October 1953

L 18466-66 FSS-2/EWT(l)/ETC(f)/EPF(n)-2/EWG(m)

ACC NR: AP6002557 SOURCE CODE: UR/0286/65/000/023/0056/0056

AUTHORS: Kuz'michev, V. M.; Polovnikov, G. G.; Valitov, R. A.

37

B

ORG: none

21,44,55

TITLE: Optical range differential calorimeter. Class 42, No. 176707

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 56

TOPIC TAGS: calorimeter, optic black body

ABSTRACT: This Author Certificate presents an optical range differential calorimeter containing a thermally insulated case with windows behind which are placed two radiation receptors. The receptors are identical copper conical black body simulators with calibration helices spaced to insure opacity of the cone from the helix to the normally incident radiation. The calorimeter also contains a thermal battery in contact with the surfaces of the conical simulator and a recording device (see Fig. 1). For simultaneous and independent determination of two incoming energies and their difference, the calorimeter contains additional reference conical black body simulators. Thermal batteries making contact with the side

2

Card 1/2 UDC: 535.23.082.63.002.56

L 18466-66

ACC NR: AP6002557

0

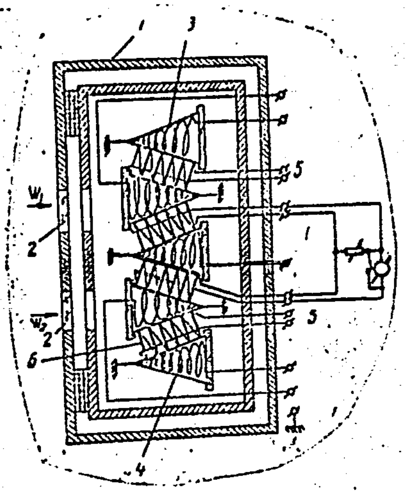


Fig. 1. 1 - case; 2 - window; 3 - conical black body simulator; 4 - calibration helix; 5 - galvanometers; 6 - thermal battery.

surfaces of the radiation receptors are connected in opposition in the measuring circuit. Orig. art. has: 1 diagram.

SUB CODE: 20/ SUBM DATE: 23May64

Card 2/2

POLOVNIKOV, G.V.

Drift mining for a two-mine cut through. Gor.zhur. no.8:63 Ag '55.
(Mining engineering) (MLRA 8:8)

POLOVNIKOV, V.[illegible]; [illegible], A.M.; [illegible], A.K.

Analgesic properties and the antitubercular activity of acyl derivatives of the aryl hydrazides of N-substituted amino acids. Trudy Izhev.gos.med.inst. 21:51-53 '64. (MIRA 19:1)

1. Kafedra farmakologii (zav. - prof. A.S. [illegible]khidskiy) Izhevskogo meditsinskogo instituta.

POLOVNIKOV, V.V., kand.tekhn.nauk; FILIPPOV, P.F., inzh.

Precision of gear wheels machined by hot and cold rolling.
Vest. mash. 38:57-58 Jl '58. (MIRA 11:8)
(Gear cutting)

GOLOVIN, Georgiy Fedorovich; OKERBLOM N.O., doktor tekhn.nauk,
retsenzent; POLOVNIKOV, V.V., kand. tekhn. nauk, red.;
ONISHCHENKO, R.N., red. izd-va; BARDINA, A.A., tekhn.
red.

[Residual stresses and deformations during high-frequency
surface hardening] Ostatochnye napriazheniia i deformatsii
pri poverkhnostnoi vysokochastotnoi zakalke. Moskva,
Mashgiz, 1962. 99 p. (MIRA 15:7)
(Induction hardening) (Thermal stresses)

POLOVNIKOV, V.V.

Met

3

Method of Measuring the Austenite Grain. I. S. Gaev and V. V. Polovnikov. (*Zavodskaya Laboratoriya*, 1955, 21, (5), 565–567). [In Russian]. Austenite grain-size determination for characterizing the liability of a given heat of steel to grain-growth is considered. A brief critical review is given of standard methods in general and as applied to several steels, and results obtained by four methods for a steel with 0·38% C and 0·6 % Mn are compared.—S. K.

SOV/123-59-16-64097

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 73 (USSR)

AUTHORS: Polovnikov, V.V., Smirnov, I.P.

TITLE: Combined Hot and Cold Rolling of Gears of Medium Module

PERIODICAL: Sb. Prom. primeneniye tokov vysokoy chastoty, Riga, 1957, 31-38

ABSTRACT: The kinematic scheme of an industrial rolling mill and the technology of the hot and cold rolling of gears, as it is applied at the Khar'kov Tractor Plant, are described. In order to reduce the thermal buckling of the gear the rolling process is divided into two stages: preliminary hot rolling with induction heating of the blank and the final cold rolling. The division of this process permitted to obtain gears of medium module of the 2nd and 3rd class of accuracy by rolling without their subsequent milling and shaving. The temperature of induction heating amounted to 1,200°C with a maximum heating intensity and a minimum of heating depth. The specific power consumed was 1.5 kw/cm^2.

Zh.V.T.

Card 1/1

YANUS, R.I., kand.fiziko-matematicheskikh nauk; VDOVIN, Yu.A., inzh.;
BLINKOV, V.Ya., inzh.; POLOVNIKOVA, L.A., inzh.

Properties of cold-rolled steel in reels for use in electric transformers. Vest. elektroprom. 32 no.9:62-63 S '61.
(MIRA 14:8)

(Electric transformers) (Steel--Magnetic properties)

POLOVNIKOVA, N A.

3-58-2-25/33

AUTHORS: Gorokhov, V.M., Professor, and Rozhdestvenskiy, B.P. Dotsent

TITLE: A Conference of Instructors in Pedagogics and Psychology (Soveshchaniye prepodavateley pedagogiki i psikhologii)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # 2, page 78 (USSR)

ABSTRACT: From 17 to 19 Ocotber 1957, a scientific-practical conference of instructors of the chairs of pedagogics and psychology of the universities and pedagogical institutes in the Middle Volga and the Urals region was held in Kazan'. Representatives of 3 universities and 9 pedagogical institutes, directors and chiefs of the teaching sections of secondary schools, collaborators of the Tatarskiy institut usovershenstvovaniya uchiteley (Tatar Institute for the Development of Teachers), and others participated in the conference work.

At the plenary sessions and meetings of the 3 sections - pedagogical, psychological and history of pedagogics - 25 reports on various questions of development of the Soviet school were heard. M.F. Shabayeva, Senior Scientific Collaborator of the APN RSFSR, submitted a report on the theme " The Soviet School and Pedagogics Over the 40 Years of Soviet Power". Candidates of Pedagogical Sciences N.A. Polovnikova

Card 1/2

IVANTISHIN, M.M. [Ivantyshyn, M.M.]; POLOVKO, N.I.

Sixth session of the commission on the determination of absolute age of geological formations. Geol. zhur. 17 no.3:96-98 '57.
(MIRA 11:2)

(Geological time)

POLOVNIKOV, P.

Teacher and friend of students. Kryl. rod. 9 no.6:13 Je '58.
(MIRA 11:6)

1.Komandir otryada Kirovskogo oblastnogo aerokluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.
(Aeronautics--Study and teaching)

ANASTAS'YAN, S.N., prof.; POLOVNIKOV, V.T., dotsent

Erysipelas outbreak among lambs. Veterinariia 40 no.2:31 F '63.
(MIRA 17:2)

1. Kirgizskiy sel'skokhozyaystvennyy institut imeni K.I.Skryabina.

POLOVNIKOV, V. T.

POLOVNIKOV, V. T. --"Bactericidal Properties and Healing and Prophylactic Effect of Non-specific Hyperimmunization Factory-Produced Serums."*(Dissertation for Degrees in Science an
Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education USSR, Kirghiz Agricultural Inst imeni K. I. Skryabin, Frunze, 1955

SO: *Knizhnaya Letopis'*, No. 25, 18 Jun 55

* For Degree of Candidate in Veterinary Sciences

POLOVNIKOV, V.N., kandidat tekhnicheskikh nauk; BODAZHKOV, V.A.; PETROV, I.N.

Hot rolling of gears from blanks warmed up by induction heating.
Avt. i trakt. prom. no.5:41-44 My '57. (MLRA 10:6)

1. Nauchno-issledovatel'skiy institut tokov vysokoy chastoty i Khar'kovskiy traktornyy zavod.

(Gearing) (Induction heating)

PHASE I BOOK EXPLOITATION SOV/5633

Polovnikov, Viktor Viktorovich, Pavel Fedorovich Filippov, Vyacheslav Aleksandrovich Bodyazhkov, and Genrikh Gavrilovich Semibratov

Izgotovleniye tsilindricheskikh zubchatykh koles prokatkoy (Rolling of Spur Gears) Moscow, Mashgiz, 1961. 187 p. Errata slip inserted. 8000 copies printed.

Ed. (Title page): V.S. Smirnov, Corresponding Member, Academy of Sciences USSR.

Reviewer: K.S. Ginzburg, Engineer; Ed. of Publishing House: T.L. Leykina; Tech. Ed.: A.A. Bardina; Managing Ed. for Literature on Machine-Building Technology (Leningrad Department, Mashgiz): Ye.P. Naumov, Engineer.

PURPOSE: This book is intended for process engineers and designers concerned with the production of toothed gears and the pressworking of metals.

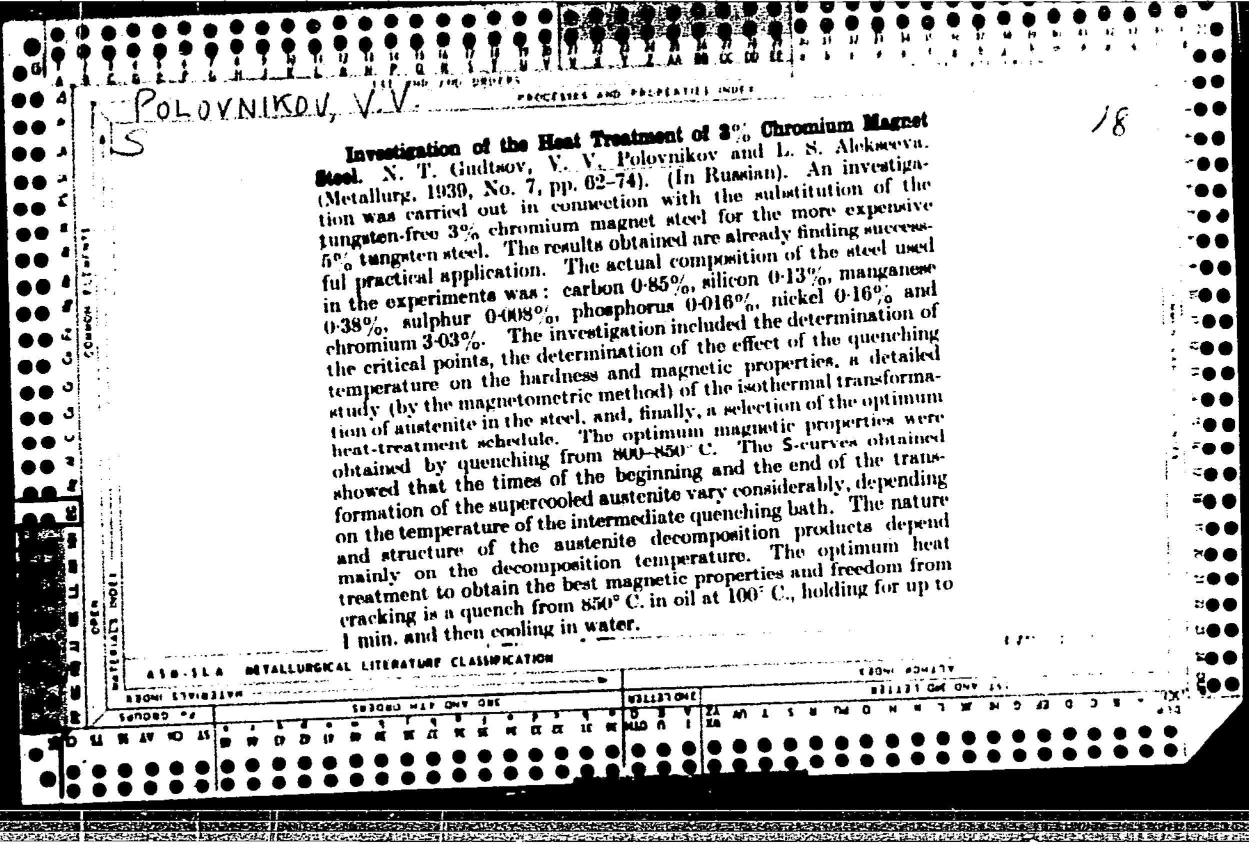
COVERAGE: A brief description is given of experiments in the roll forming of gears carried out primarily at the Khar'kovskiy traktornyy zavod (KhTZ) -- Khar'kov Tractor Plant -- and at the Nauchno-issledovatel'skiy institut tokov vysokoy chastoty (NIITVCh) -- Scientific Research Institute of High-Frequency Currents. Experiments in the development of roll-forming machines are also

Card 1/4

included. The following are discussed: special features of metal deformation and of induction heating during rolling; results of experiments in comparing the quality of rolled and cut gears; calculations of economic efficiency in gear rolling; and roll-forming processes in Soviet plants. The last item includes a discussion of the sequence in the development and introduction of combined hot-and-cold rolling, by which precision gears can be obtained without machining. Particular attention is given to the hot-rolling process; cold-rolling is considered only as a finishing operation in the KhTZ-NIITVCh process. The book was written as follows: Ch. I and Sec. 6 of Ch. III, by P.F. Filippov; Ch. II, by V.V. Polovnikov and P.F. Filippov; Secs. 7 and 8 of Ch. III, and Chs. V and VII, by V.V. Polovnikov and G.G. Semibratov; Secs. 10 and 11 of Ch. IV, by V.A. Bodazhkov; and the remainder and introduction, by V. V. Polovnikov. There are 47 references: 36 Soviet, 4 Czech, 3 English, 2 Hungarian, 1 German, and 1 unidentified.

TABLE OF CONTENTS [Abridged]:

Introduction 5


PROCESSES AND PROPERTIES INDEX
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

POLOVNIKOV, V.V.

S

18

Investigation of the Heat Treatment of 3% Chromium Magnet Steel. N. T. Gudtsov, V. V. Polovnikov and L. S. Alekseeva. (Metallurg, 1939, No. 7, pp. 62–74). (In Russian). An investigation was carried out in connection with the substitution of the tungsten-free 3% chromium magnet steel for the more expensive 5% tungsten steel. The results obtained are already finding successful practical application. The actual composition of the steel used in the experiments was: carbon 0·85%, silicon 0·13%, manganese 0·38%, sulphur 0·008%, phosphorus 0·016%, nickel 0·16% and chromium 3·03%. The investigation included the determination of the critical points, the determination of the effect of the quenching temperature on the hardness and magnetic properties, a detailed study (by the magnetometric method) of the isothermal transformation of austenite in the steel, and, finally, a selection of the optimum heat-treatment schedule. The optimum magnetic properties were obtained by quenching from 800–850° C. The S-curves obtained showed that the times of the beginning and the end of the transformation of the supercooled austenite vary considerably, depending on the temperature of the intermediate quenching bath. The nature and structure of the austenite decomposition products depend mainly on the decomposition temperature. The optimum heat treatment to obtain the best magnetic properties and freedom from cracking is a quench from 850° C. in oil at 100° C., holding for up to 1 min. and then cooling in water.

POLOVNIKOV, V.V., kandidat tekhnicheskikh nauk, professor.

Induction hardening of paper-cutting blades. Vest.mash. 37
no.6:66-68 Je '57. (MLRA 10:7)

1. Nauchno-issledovatel'skiy institut tokov vysokoy chastoty.
(Paper-cutting machines)
(Steel--Hardening)
(Induction heating)

POLOVNIKOV, V.V., kandidat tekhnicheskikh nauk.

Improve the All-Union State Standards for crankshafts used in tractor engines. Standartizatsiia no.2:79 Mr-Ap '57. (MIRA 10:6)

1. Nauchno-issledovatel'skiy institut tokov vysokoy chastoty im. V.P. Vologdina.

(Cranks and crankshafts--Standards)

POLOVNIKOV, Viktor Viktorovich; FILIPPOV, Pavel Fedorovich; BODAZHKOV, Vyacheslav Aleksandrovich; SEMIBRATOV, Genrikh Gavrilovich; GINZBURG, K.S., inzh., retsenzent; SMIRNOV, V.S., red.; LEYKINA, T.L., red. izd-va; BARDINA, A.A., tekhn. red.

[Shaping spur gears by rolling] Izgotovlenie tsilindricheskikh zubchatykh koles prokatkoi. Pod red. V.S.Smirnova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 187 p. (MIRA 14:9)

1. Chlen-korrespondent AN SSSR (for Smirnov).
(Gearing, Spur) (Rolling (Metalwork))

GAYEV, I.S.; POLOVNIKOV, V.V.

Effect of various elements on austenite grain size of medium carbon steel. Zhur.tekh.fiz. 25 no.3:529-533 Mr '55. (MIRA 8:5)
(Austenite) (Steel alloys)

POLOVNIKOV, V.V.

GOLOVIN, G.F., kandidat tekhnicheskikh nauk; POLOVNIKOV, V.V., kandidat tekhnicheskikh nauk.

Preventing crack formation on the surfaces of crankshafts. Avt.i trakt.prom. no.3:35-38 Mr '57. (MLRA 10:5)

1. Nauchno-issledovatel'skiy institut tokov vysokoy chastoty. (Cranks and crankshafts)

Polovnikov, V. V.

11255*. Determination of Hardenability of Chromium-Manganese Tool Steel. Ob opredelenii prokalivaemosti instrumental'noi khromomargantsevoi stali. (Russian.) V. V. Polovnikov. *Zavodskaia Laboratoriia,* v. 22, no. 5, May 1956, p. 565-567.

Met

Quantitative relationship between stability of austenite in, and hardenability characteristics of, tool steel. Problems of uniformity of methods involved in determination of each of these properties. Graphs. 3 ref.

POLOVNIKOV, V.V.

Determining the hardenability of chromium-manganese tool steel.
Zav.lab. 22 no.5:565-567 '56. (MLRA 9:8)
(Chromium-manganese steel) (Tool steel)

POLOVNIKOV, V. V.

4

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Metallurgy and Metallography

① mc'

Effect of chromium and manganese concentration in metallic phase on hardenability of tool steel. V. V. Polovnikov. *Vestnik Mashinostroeniya* 33, No. 9, 68-70 (1953).—Samples of [illegible] heats contg. C 1, Mn 0.4-1.8, Cr 0.06-2.0% deoxidized with Si and Mn (without Al) were annealed to 197-217 Brinell hardness and then quenched from 800 to 850° in oil. The samples were analyzed for undissolved Mn and Cr carbides. Curves of hardenability plotted against actual Mn and Cr concns. in the metallic phase show the effect of each of these elements. I. D. G.

POLOVNIKOV, V.V.

GAYEV, I.S.; POLOVNIKOV, V.V.

Effect of aluminum on the structure, austenite grain size and impact strength of medium carbon steels. Lit.proizv. no.1:18-21 Ja '55. (MLRA 8:3)
(Steel--Metallography) (Austenite)

POLOVNIKOV, V.V.

USSR

✓Influence of aluminum on structure, austenitic grain size, and impact strength of medium-carbon steel. I. S. Gaev and V. V. Polovnikov. *Liteinoe Proisvodstvo* 1955, No. 1, 18-21.—A 0.37% C steel was alloyed with 0.02, 0.06, 0.1 and 0.2% Al (exptl. conditions are not given) and its austenitic grain size and impact strength were detd. and presented in graphs. Up to 0.06% Al, the metal decreases grain size, and larger addns. increase it. J. D. Gat

POLOVNIK, V.V.

POLOVNIKOV,V.V., kandidat tekhnicheskikh nauk

Significance of standardizing the tempering of tool steel.
Standartizatsiia no.1:56-61 Ja-F '55. (MLRA 8:6)
(Tool steel--Standards)

POLOVNIKOV, V.V.

USS

289/117 669.14 Zh.tekh.Fiz.
25(3), 529-533
1955
U.S.S.R.

The Effect of Various Constituents on the Size of Austenite Grains in Medium Carbon Steel

I.S. Gayev, V.V. Polovnikov

The effect of considerable additions (up to about 40%) of Mn, Cr, Al, V, Mo, Si, Cu and Co on the size of austenite grains in steel with medium carbon contents is considered. Explanation is offered of the way in which alloying constituents affect the temperature of the beginning of phase transformations. The knowledge of critical temperatures for the system of alloys will thus enable forecasting of the character of the changes in the size of austenite grain at given temperatures. (Bibl.8)

SOV/137-58-11-22352

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 72 (USSR)

AUTHORS: Polovnikov, V. V., Smirnov, I. P.

TITLE: Combined Hot and Cold Rolling of Gears of Medium Module (Kombinirovannaya goryache-kholodnaya prokatka shesteren srednego modulya)

PERIODICAL: V sb.: Prom. primeneniye tokov vysokoy chastoty. Riga, 1957, pp 31-38

ABSTRACT: When gears (G) are hot rolled (R), deviations in their geometry are caused by defects in the rolling mill and by thermal warping of the G during heating and cooling. Division of the process of R into 2 steps, namely, a primary hot and a finishing cold R permits significant diminution of the harmful influence of thermal warping and achievement (if the mill is sufficiently rigid) of G of Class 2 or 3 tolerance by R alone with no subsequent milling and shaving of the teeth. A production mill for this purpose at the Khar'kov Tractor Plant (1956 model) has 2 rolls (one smooth and one toothed, with a flange), mounted on carriages that move along guides in the forward portion of the housing. Idler guide rolls are mounted to

Card 1/2

SOV/137-58-11-22352

Combined Hot and Cold Rolling of Gears of Medium Module

the side of the working rolls. The rolls are rotated by a motor through a series of transmission gearings and the rear and forward indexing G, connected by spider-type hinges permitting radial feed of the rolls from hydraulic cylinders. Heating of the R in hot R is by HF current in a sector-type inductor with a heating turn at its tip.

V. D.

Card 2/2

SOV/122-58-7-17/31

AUTHORS: ~~Polovnikov, V.V.,~~ Candidate of Technical Sciences and Filippov, P.F., Engineer

TITLE: The Accuracy of Gear Wheels Produced by Hot and By Cold Rolling Technique (Tochnost' zubchatykh koles, izgotovlennykh goryachey i kholodnoy prokatkoy)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 7, pp 57-58 (USSR)

ABSTRACT: Some 50 gearwheels, 5 mm module and between 250 and 197 mm dia. were measured directly after hot rolling and a similar number after cold rolling their teeth, the teeth having previously been formed either by milling or by hot rolling in the latter case. A further 50 gears were measured after milling and gear shaving the teeth which had been previously formed by hot rolling.
The statistical distribution of errors in pitch of the hot rolled gears (without further work on them) is shown in Figure 1, where the percentage of the total number checked is shown against pitch error in microns (.001 mm). Errors in hot rolled gears which had been subsequently milled or shaved (with allowance for this of 0.15 - 0.2 mm on the hot rolled gear) are shown in Figure 2.
Taking account of the overall increase in tooth chord

Card1/2

SOV/122-58-7-17/31

The Accuracy of Gear Wheels Produced by Hot and by Cold Rolling Technique

resulting from cementation and hardening and the work-hardening effect of cold rolling, it was found desirable to aim for an allowance of -0.3 mm on mean centre distance of gears before these latter operations are effected. Cold-rolled gears were tested with the object of clarifying the possibility of substituting this process for gear shaving. Error in mean centre distance on rotation through one tooth $\delta_{\gamma} a$ and error on complete rotation $\delta_{c} a$ are shown in Figure 3 for a group of gears which were cold-rolled after forming the teeth by milling. The contact area and smoothness of the cold-rolled gears was superior to that of the shaved gears, apart from the considerable improvement in profile error δf and cumulative pitch error δt_{Σ} shown in Figure 4 where full lines are for gears after milling and broken lines for gears after cold rolling. Cold rolling reduces profile errors to a tenth of the errors found after milling. There are 4 figures and 2 Soviet references.

Card2/2

S/182/60/000/002/002/012
A161/A029

AUTHORS: Polovnikov, V.V.; Kushch, E.V.

TITLE: Practical Use of Gear Rolling in Mass Production

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 2, pp. 4 - 8

TEXT: The "Krasnyy metallist" Plant in Konotop was the first to use rolling for gears of less than 100 mm in diameter and 1.5 module; now the Khar'kovskiy traktornyy zavod im. Ordzhonikidze (Khar'kov Tractor Plant im. Ordzhonikidze) and the ChTZ are using it also for larger gears. The article contains detailed information on the process and a brief illustrated description of the machines. The method is 5 - 10 times more productive than cutting, the gears are more durable, less metal is needed and no expensive milling cutters are required. The principle is rotation of gear blanks in mesh with cogged rolls, squeezing metal out of grooves and forming teeth. Two machine types are known (Ref. 1), viz., rack type and roll type, but the roll type only is used at the time being. In the ЦКБММ-22 (TsKBMM-22) machine of the Konotop Plant (Fig. 3, kinetic diagram) gear blanks are forced axially between rotating rolls, only small gears can be produced, and the accuracy is not above "class 4". The ChTZ has a ЦКБММ-13

Card 1/3

S/182/60/000/002/002/012
A161/A029

Practical Use of Gear Rolling in Mass Production

(TsKBMM-13) machine with radial rolls feed and no axial blank feed; the accuracy obtained with 7 mm module gears is also "class 4". The Khar'kov Tractor Plant in cooperation with NII TVCh im. Professor V.P. Vologdin improved the accuracy by dividing the process into two stages: hot plastic deformation and cold finishing rolling (with 0.05 mm allowance on tooth flank for cold rolling) (Ref. 2). The Khar'kov Plant, abbreviated ХТЗ (KhTZ), produced a hot-rolling machine (described in Ref. 3), and a cold-finishing machine, and beginning with 1957, tractor gears of 5 mm module were obtained with an accuracy of the 2nd and 3rd class. The hot ХТЗ-296 (KhTZ-296) is illustrated in Figure 5. It works with radial feed of rollers and differs from the TsNIITMASh system machine (Fig. 4) by having one cogged and one smooth roll, rolls for the butt faces, and hydraulic drive for tool rests. Gears rolled over on butt sides are ready without further machining. The cold-finishing ХТЗ-298 (KhTZ-298) machine (Fig. 6) has one cogged roll, no smooth roll and no butt rolls. The KhTZ hot and cold machine accommodates 200 - 500 mm in diameter gears with a maximum module of 7 mm and a maximum width of 70 mm. The article includes the method used for calculating the roll tooth dimensions (Fig. 7). This method is not yet finally established, and further investigations are necessary, for it appears that the addendum shape is detrimental to the durability of rolls, and the generating angles (20 and 19°) are selected

Card 2/3

S/182/60/000/002/002/012
A161/A029

Practical Use of Gear Rolling in Mass Production

at random. First-class accuracy of rolls appears to be not justified, for the accuracy of gears produced with them is not higher than 3rd class, and it seems that other factors than the generating roll accuracy are also involved. Gear blanks are heated for hot rolling by a sector-shaped induction heater (Fig. 9) to 1,100- - 1,200°C. The entire hot rolling process beginning with pressing a push button to lower the heater on the blank lasts 48 sec (Table 2). A photo (Fig. 10) shows a hot-rolled gear. Even the improved hot-rolling machine does not produce gears with stable 2nd - 3rd accuracy class due to warping, and further improvement must be sought in design improvement of the cold-rolling machine. Graphite lubrication and rounded-up roll tooth addendum had a positive effect on the flow of metal that was not satisfactory in the beginning. Only after an investigation carried out in 1957 by Yu.A. Fedorov with screwed in steel pins (Fig. 11) it was established that the tooth space of the roll must be deeper (0.75 mm deeper) so as not to restrict the flow of metal on the blank to the addendum tops. There are 11 figures, 3 tables and 5 Soviet references.

Card 3/3

POLOVNIKOV, V. V.

2

Influence of aluminium on the structure, size of austenite grain and toughness of medium-c[illegible] and V. [illegible] nikov ([illegible], 18–21).—In the investigation described the importance of structure in the change of the properties of steel brought about by Al was studied. Specimens of untreated steel and of steel to which 0·02%, 0·06%, 0·1%, and 0·2% of Al had been added were carburized, decarburized, annealed, or vac.-heated under various conditions and the resulting grain sizes and mechanical properties studied. The austenite grain size affected mechanical properties only when the effect of non-metallic inclusion was excluded. It is concluded that the net effect of various factors on toughness can be estimated by calculation from quant. characteristics.

J. IRON STEEL INST. (R.B.C.).

80

Polovnikova, V.V.

Influence of Aluminium on the Structure, Size of Austenite Grain and Toughness of Medium-Carbon Steel. L. S. Gaey and V. V. Polovnikov. (*Liteinoe Proizvodstvo*, 1955, (1), 18–21). [In Russian]. In the investigation described the importance of structure in the change of the properties of steel brought about by Al was studied. Specimens of untreated steel and of steel to which 0·02%, 0·06%, 0·1%, and 0·2% Al had been added were carburized, decarburized, annealed, or vacuum-heated under various conditions and the resulting grain sizes and mechanical properties studied. The austenite grain size affected mechanical properties only when the effect of non-metallic inclusion was excluded. It is concluded that the net effect of various factors on toughness can be estimated by calculation from quantitative characteristics.—S. K.

MB

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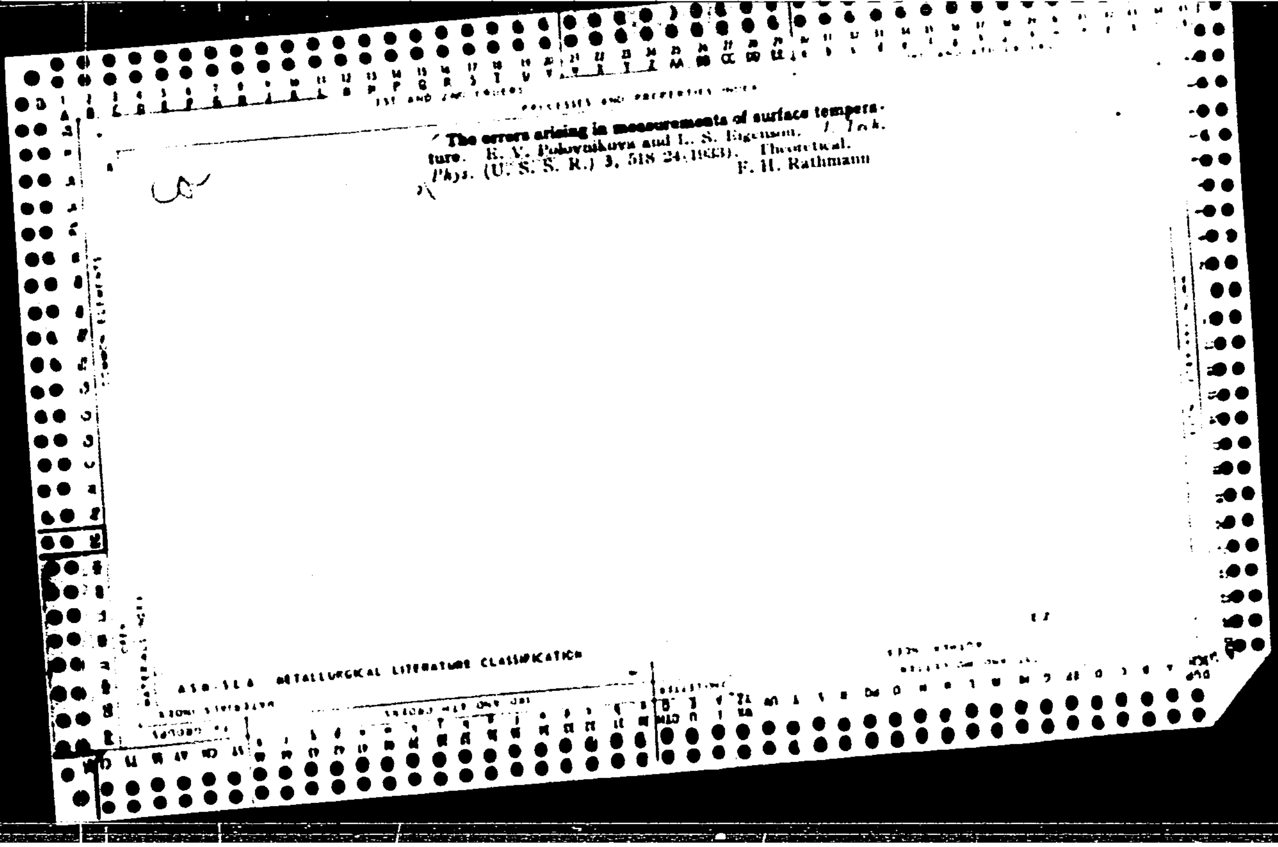
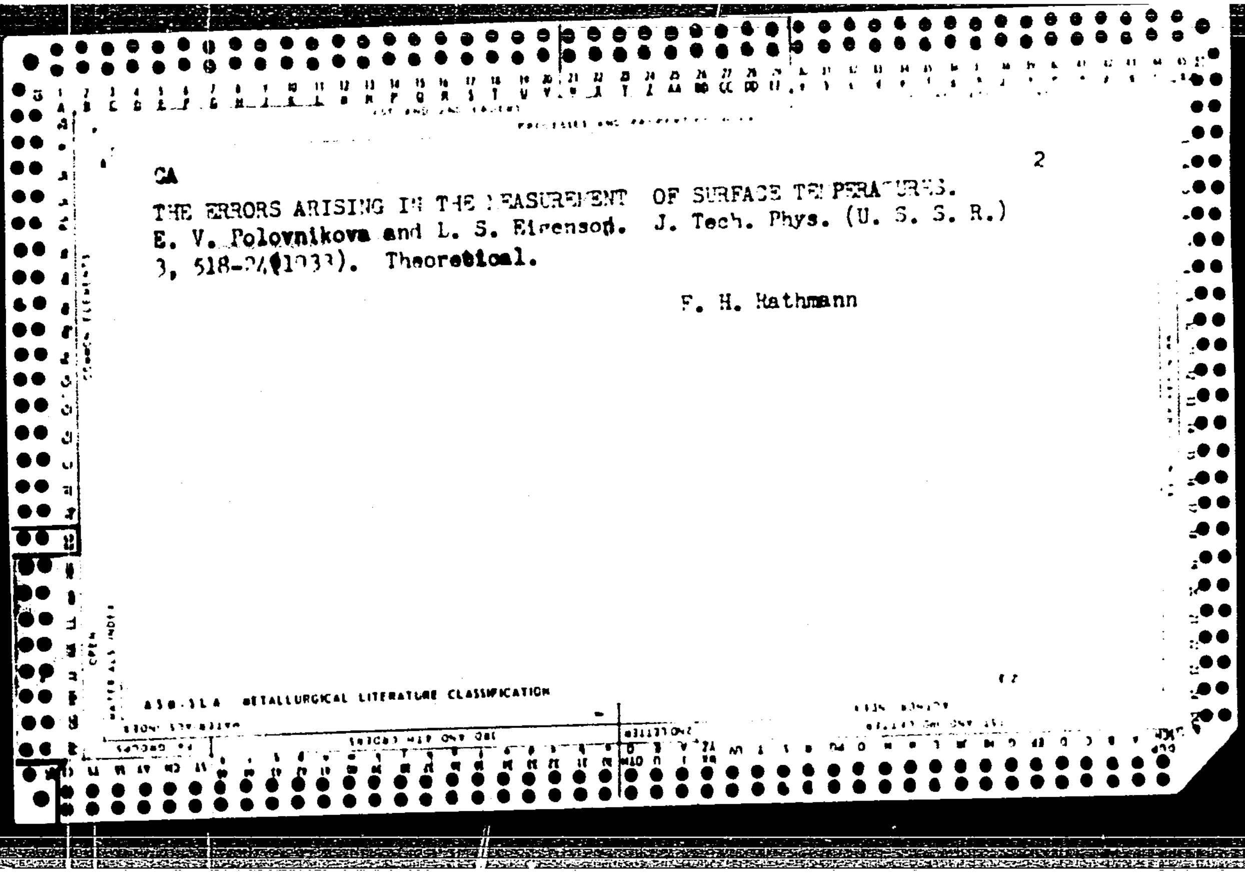


PROCESSES AND PROPERTIES INDEX

The errors arising in measurements of surface temperature. E. V. Pokrovnikova and L. S. Eigenson. *J. Tech. Phys. (U. S. S. R.)* 3, 518-24(1933). Theoretical. F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



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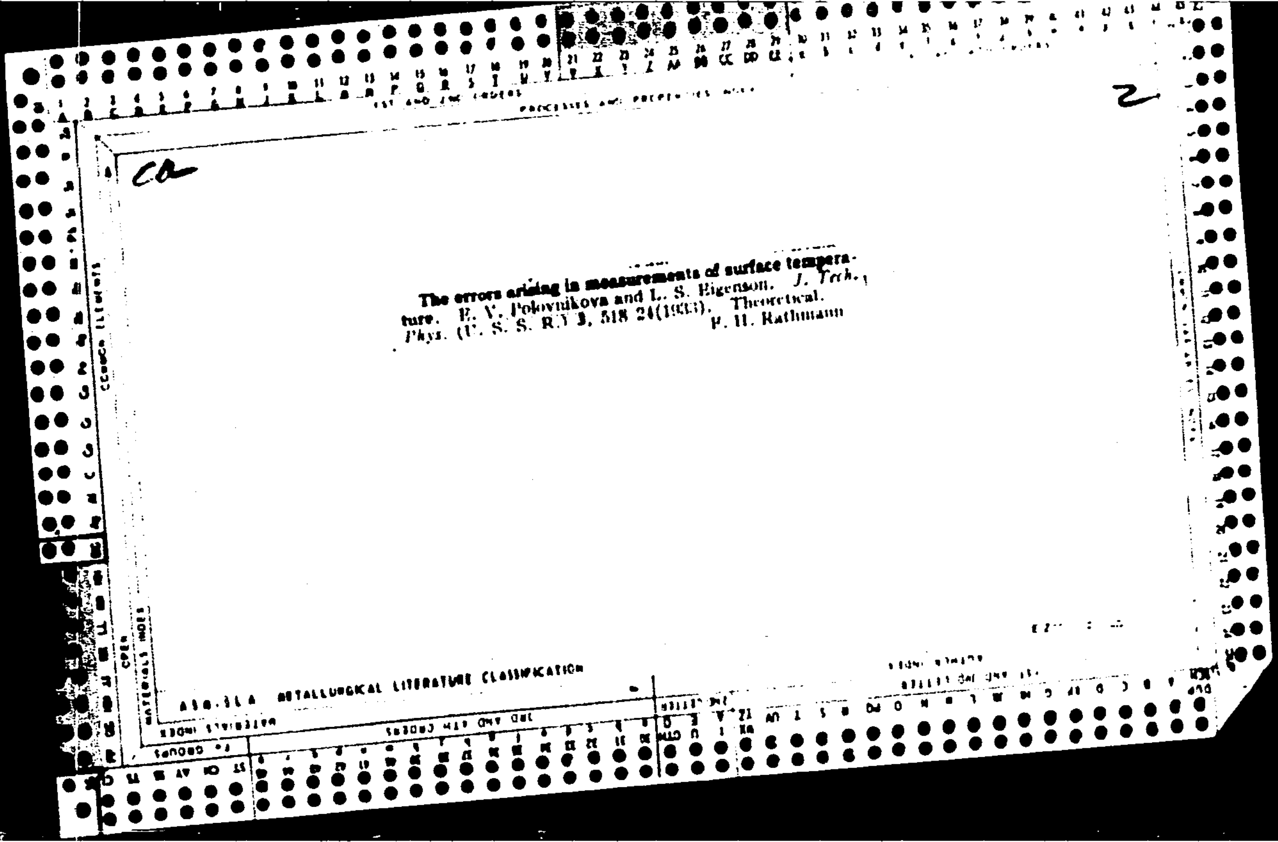
THE ERRORS ARISING IN THE MEASUREMENT OF SURFACE TEMPERATURES. E. V. Polovnikova and L. S. Eigenson. J. Tech. Phys. (U. S. S. R.) 3, 518-24 (1933). Theoretical.

F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



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Ca

The errors arising in measurements of surface temperature. E. V. Polovnikova and L. S. Eigenson. J. Tech. Phys. (U. S. S. R.) 3, 518 24(1933). Theoretical. F. H. Rathmann

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

KRASNOPEROV, G.V.; POLOVNIKOVA, L.A.

Kinetics of the ordered iron-alumimum IU16 alloys. Fiz. met. i metalloved. 11 no. 1:149-150 Ja '61. (MIRA 14:2)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov.
(Iron-aluminum alloys--Metallography)

SLATINSKIY, A.N.; POLOVNIKOVA, S.A.

Automatic control circuit of the technological processes in the padding dyer and steaming apparatus. Tekst.prom. 21 no.6:67-68 Je '61. (MIRA 15:2)

(Textile machinery)
(Automatic control)

ACCESSION NR: AP4017350 S/0126/64/017/002/0184/0191

AUTHORS: Polovov, V. M.; Sumin, V. I.

TITLE: Influence of the scattering mechanism on the Hall effect in dilute copper-base solid solutions

SOURCE: Fizika metallov i metallovedeniye, v.17, no. 2, 1964, 184-191

TOPIC TAGS: scattering mechanism, Hall effect, solid solution, binary system alloy, effective electron concentration, Hall constant, electronic relaxation time, relaxation time anisotropy

ABSTRACT: The Hall effect in dilute copper-base solid solutions has been measured experimentally. Several single-phase binary system alloys were used (Cu-Zn, Cu-Ga, and Cu-Ge). The method of preparation and instrumentation details are described by V. I. Sumin (Zavodokaya laboratoriya, 1962, No. 6). The theoretically calculated values of the effective electron concentration n* for these alloys agree well with experimental measurements. n* is determined from the expressions

$$\boxed{A_x = \pm 1/Ne,}$$

Card 1/2

ACCESSION NR: AP4017350

$$n^* = 6.25 \cdot 10^{18} v_0/|A_H|$$

where N - number of carriers per unit volume, e - electronic change, v_0 - atomic volume in cm^3/at, A_H - Hall constant in cm^3/A. It is shown that the Hall effect cannot be understood without the assumption of significant electronic relaxation time anisotropies. The change in the Hall effect in alloy formation is caused by the different relaxation time anisotropies for different scattering mechanisms. The tendency towards anisotropy for τ_k (the relaxation time) increases with an increase in impurity atom valency. Orig. art. has: 14 formulas and 3 figures.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 19Feb63	DATE ACQ: 18Mar64	ENCL: 00
SUB CODE: ML	NO REF SOV: 004	OTHER: 016

Card 2/2

POLOVODOVA, V. P. Cand. Biolog. Sci.

Dissertation: "Age Changes in Anopheles and Age Grouping in Mosquito Populations." Inst of Malaria, Medical Parasitology and Helminthology, Acad Med Sci USSR, 30 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

POKROVSKIY, S.N.; MITARNOVSKIY, V.M.; POLOVODOVA, V.P.

Organization of anti-malarial measures in connection with the construction of the Stalingrad hydroelectric power station (survey of work of 1952). Med.paraz.i paraz.bol. no.2:185-186 Mr-Ap '53. (MLRA 6:6)
(Stalingrad--Malarial fever)

POLOVODOVA, V.P.; DUBROVSKAYA, N.A.

Epidemiologic role of the automn generation of Anopheles maculipennis Messeae under conditions prevailing in Rostov Province. Med.paraz.i paraz.bol. no.6:505-513 N-D '53. (MLRA 6:12)

1. Iz entomologicheskogo otdela Instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR (direktor instituta - dotsent S.N.Pokrovskiy).
(Rostov Province--Mosquitoes) (Mosquitoes--Rostov Province)

EXCERPTA MEDICA Sec.17 Vol.4/5 Pub.Health, Etc. May 58

POLOVODOVA, V.P.

1827. ENTOMOLOGICAL BASIS OF THE CAMPAIGN AGAINST FLIES (Russian text) - Polovodova V.P., Gudoshchikova-Krasilnikova V.I. and Tokmacheva S.S. - MED. PARAZIT. 1956, 25/4 (358-363)

The tactics should be based on phenological data, study of seasonal numerical variations, and measurements of the flying capacity of Musca domestica. Extermination during feeding time by means of poisoned fly papers and similar devices is effective. The areas which seem to attract the insects during the night should be treated with DDT, and breeding grounds should be treated with repellents. (S)

POLOVODOVA, V.P.; DOTSENKO, A.A.

Conference of Entomologists of the Sanitary and Epidemiological Stations of the European Part of the R.S.F.S.R. Med. paraz. i paraz. bol. 32 no.5:633-634 S-O'63 (MIRA 16:12)

POLOVODOVA, V.P.; GUDOSHCHIKOVA-KRASIL'NIKOVA, V.I.; TOLMACHEVA, S.S.

Entomological prerequisites in fly control. Med.paraz. i paraz.bol.
25 no.4:358-363 O-D '56. (MIRA 10:1)

1. Iz Instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR (dir. instituta S.N.Pokrovskiy) i Novocherkasskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach Ye.A.Monchenko)

(FLIES,
control, entomol. principles (Rus))

POLOVODOVA, V.P.; IL'CHENKO, L.Ya.

2d conference of entomologists of the sanitary epidemiological stations in the southeast of the European part of the R.S.F.S.R. on the control of injurious insects. Med. paraz. i paraz. bol. 33 no.6:754-755 N-D '64. (MIRA 18:6)

GULEVICH, L.G.; POLOVODOVA, V.P.; POLYANICHENKO, A.I.

Variations in the seasonal course of the mosquito population in relation to the hydrological properties of the Don. Med. paraz. i paraz. bol. 33 no.1:31-39 Ja-F '64 (MIRA 18:1)

1. Rostovskiy nauchno-issledovatel'skiy institut meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR (direktor - prof. S.N.Pokrovskiy).

ALEKSEYEV, V.L., inzh.; POLOVOV, B.D., inzh.; SHCHUKIN, A.S., kand.tekhn.nauk

Ground cementation from the working face during vertical shaft sinking. Shakht.stroi. 8 no.11:25 N '64. (MIRA 18:1)

1. Trest Boksitstroy (for Alekseyev). 2. Sverdlovskiy gornyy institut (for Shchukin).

L 1350-66 EWT(m)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)/EWA(c) IJP(c) MJW/JD/HW/JG

ACCESSION NR: AP5021932 UR/0126/65/020/002/0210/0215
538.653

65
60
B

AUTHOR: Polovov, V. M.; Krasil'nikov, L. A.
44,55 44,55

TITLE: Effect of elastic stresses on the magnetic properties of a highly coercive alloy of the Fe-Ni-Cr system
18 27 27 27 18

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 2, 1965, 210-215

TOPIC TAGS: magnetic property, elastic stress, magnetic coercive force, hysteresis, magnetization, magnetic anisotropy, ferrite, magnetic domain/ KhMN alloy

44,55,18

ABSTRACT: The magnetic behavior of partially austenitic alloys of the Fe-Ni-Cr system depends markedly on the dimensions of ferrite-phase segregations and their packing density in the nonmagnetic matrix. It is assumed that after Fe-Ni-Cr alloys are treated to acquire a high coercive force their magnetic phase contains mono-domain particles. But there is as yet no proof of this assumption. Therefore, to fill this gap, and also since it is known that effect of external elastic stresses on the hysteresis of a ferromagnetic depends largely on its magnetic structure, the authors investigated, by means of the oscillographic method of

Card 1/2

ASSOCIATION: Beloretskiy provolochno-kanatnyy zavod (Beloretsk Wire-Cable Plant)
44,55

SUBMITTED: 08Apr64 **ENCL:** 00 **SUB CODE:** EM, MM

NO REF SOV: 007 **OTHER:** 004

Card 2/2

L 06273-67

ACC NR: AP6025074 SOURCE CODE: UR/0115/66/000/006/0037/0038

9
B

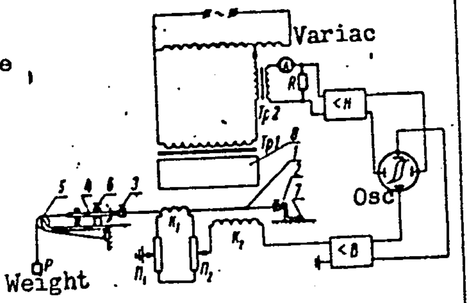
AUTHOR: Polovov, V. M.; Krasil'nikov, L. A.

ORG: none

TITLE: Oscillographic outfit for measuring magnetoelastic effects

SOURCE: Izmeritel'naya tekhnika, no. 6, 1966, 37-38

TOPIC TAGS: magnetoelastic effect, magnetization curve, hysteresis loop



ABSTRACT: The oscillographic outfit for measuring magnetoelastic effects (see figure) comprises: specimen 1 fixed in nonmagnetic-material clamps 2 and 3; bar 4 can be turned by screw 6 to apply a torsional deformation to the specimen; tension leads are applied by a weighted wire passed over sheave 5; short-circuited turn 8 magnetizes the specimen. Measuring K_1 and compensating K_2 coils are placed in a circular magnetizing field. As $B - \mu_0 H = \mu_0 J$ and channel-B amplifier contains an integrating link, the vertical deviation of the oscillograph beam represents J; the hysteresis loop appears on the screen. The coercive force, remanence, and loop shape can be observed during the application of elastic stresses to the specimen. Orig. art. has: 1 figure and 6 formulas.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 003

UDC: 621.317.351:621.317.4

Card 1/1 egk

POLOVTSEVA, V. V.

"PH. of the Medium of Vagina in relation to the sex of the offspring in sheep."
Department of Physiology (Chief: V. V. Polovtseva) All-Union Scientific Research
Institute for Sheep and Goat Breeding, Voroshkilovsk. (p. 915) by Kardymovich, M. K.

SO: Biological Journal (Biologicheskii Zhurnal) Vol. V, 1936, No. 5

ALEKSEYEV, V.L., inzh.; POLOVOV, B.D., inzh.; SHCHUKIN, A.S., kand. tekhn. nauk

Construction of a watertight barrier in a shaft by the underwater concreting method. Shakht. stroi. 8 no.5:25-28 My'64
(MIRA 17:7)

1. Trest Boksitstroy (for Alekseyev). 2. Sverdlovskiy gornyy institut (for Shchukin).

POLOVOV, V.M.

Effect of tempering on the properties of magnetically hard alloys in the system Fe - Ni - Cr. Fiz. met. i metalloved. 20 no.1:55-59 Jl '65. (MIRA 18:11)

1. Beloretskiy provolochno-kanatnyy zavod.

POLONOV, V.M.; KRASIL'NIKOV, L.A.

Effect of elastic stresses on the magnetic properties of highly coercive alloys in the system Fe - Ni - Cr. Fiz. met. i metalloved. 20 no.2:210-215 Ag '65. (MIRA 18:9)

1. Beloretskiy provolochno-kanatnyy zavod.

POLOVOV, V.M.; SUMIN, V.I.

Influence of the mechanism of scattering on the Hall effect in diluted copper-base solid solutions. Fiz. met. i metalloved. 17 no.2:184-191 F '64. (MIRA 17:2)

1. Moskovskiy institut stali i splavov.

L 13046-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) MJW/JD

ACC NR: AP5018956 SOURCE CODE: UR/0126/65/020/001/0055/0059

AUTHOR: Polovov, V. M.

54 B

ORG: Beloretskiy Wire and Cable Factory (Beloretskiy provolochno-kanatnyi zavod)

TITLE: The effect of annealing on the properties of a magnetically hard alloy of the Fe-Ni-Cr system

27 27 27

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 1, 1965, 55-59

TOPIC TAGS: magnetic property, crystal structure, magnetization curve, magnetic alloy, annealing

ABSTRACT: Changes in the properties and crystallographic structure of a cold worked Fe-Ni-Cr alloy during subsequent annealing were studied. Magnetic properties, crystallographic texture, microhardness, and temperature coefficients of electrical resistance are given as functions of the annealing temperature of the cold worked highly magnetic alloy KhNM. Annealing at 640°C for 10 hrs causes complete disappearance of the α-phase which forms upon severe cold working in the all γ-phase matrix. As the α → γ transformation nears completion, magnetism vanishes and the temperature coefficient of electrical resistance reaches a maxi-

Card 1/2 UDC: 538.245/248

L 13046-66

ACC NR: AP5018856

mum. Reasons for the appearance of magnetic stability and the linear magnetic properties of the material during thermal treatment are considered. Orig. art. has: 3 figures.

SUB CODE: 11/ SUBM DATE: 09May64/ ORIG REF: 008/ OTH REF: 010

Card 2/2

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graphite for anodes and grids of mercury-arc rectifiers. In the first series of experiments, the contact angle of wetting the carbonaceous additives with coal-tar pitch was measured in the 70—150C range to determine their surface energy which depends on heat treatment and which [illegible] wetting angle was determined by a photographic method on finely ground

Card 1/3 UDC: 546.26—162:539.4

ACC NR: AP7002407

compacted materials. The materials studied were: pyrolytic petroleum coke prepared at 450C from pyrolytic tar and subsequently calcined at 1250—1280C; sintered material which was a product of baking at 850 to 900C of the pyrolytic coke with coal-tar pitch; synthetic graphite obtained by heating the sintered material at 2450C; and natural graphite. The plots of the contact wetting angle of these materials versus temperature indicated a decrease in wetting with an increase in the degree of heat treatment of the materials. In the second series of experiments, compressive strength and density were determined of the pyrolytic graphite products which contained sintered or graphitized materials in variable proportions. Test specimens 20 x 20 x 20 mm in size were prepared from blanks which were obtained by baking the compacted mix at 850C for 24 hr and graphitizing at 2450C by a standard industrial procedure. The experimental data are summarized in Table 1. The data indicated that the blanks with the sintered material addition have the maximum strength. The optimum composition was at 5% of the sintered additive because of cracks due to nonuniform shrinkage of the components in the blanks with over 20% additive. Addition of the sintered material contributed to quality stabilization of the product, while addition of graphitized material was detrimental to stability under working conditions. The wettability data were correlated with the quality characteristics of the products studied. Orig. art. has: 1 figure and 3 tables. [W. A. 88]
[JK]

Card 2/3

Card 3/3

MIKHAYLOV, Yu.A., inzh.; POLOVOY, I.F., inzh.; CHERNYAYEV, I.V., inzh.

Automatic registering of internal overvoltages in high-voltage networks. Elek. sta. 32 no.12:47-50 D '61. (MIRA 15:1)
(Electric power distribution)
(Electric insulators and insulation)

ALEKSANDROV, G.N., kand.tekhn.nauk (Leningrad); POLOVOY, I.F. (Leningrad)

Decrease of the insulation disruptive voltage in electric power systems during certain kinds of switching surges. Elektrichestvo no.7:86-87 Jl '63. (MIRA 16:9)
(Electric insulators and insulation)

MIKHAYLOV, Yu.A., inzh.; ORLOV, V.N., kand. tekhn.nauk; POLOVOY, I.F., kand.tekhn.nauk; CHERNYAYEV, I.V., kand.tekhn.nauk; VERSHKOV, V.A., inzh.; NAUMOVSKIY, L.D., inzh.; TOPOLYANSKIY, L.B., inzh.

Registration of internal overvoltages in 110 to 500 kv. operational power distribution networks. Elek. sta. 36 no.2:48-52 F '65. (MIRA 18:4)

MIKHAYLOV, Yu.A., inzh.; POLOVOY, I.F., kand. tekhn. nauk; CHERNYAYEV, I.V., inzh.; VASIL'YEV, N.K., inzh.; VERSHKOV, V.A., inzh.; GUSEV, V.S., inzh.

Study of internal overvoltages in a 500 kv. network of the Moscow Regional Power System Administration. Elek. sta. 35 no.5:67-71 My '64. (MIRA 17:8)